

12

EUROPEAN PATENT APPLICATION

21 Application number: 88403266.5

51 Int. Cl.⁵: **C12Q 1/68, G01N 33/559,**
G01N 33/543, //C07H21/00,
G01N33/58

22 Date of filing: 21.12.88

30 Priority: 21.12.87 US 135652
23.11.88 US 276139

43 Date of publication of application:
28.06.89 Bulletin 89/26

84 Designated Contracting States:
CH DE FR GB IT LI SE

59 Date of deferred publication of the search report:
27.06.90 Bulletin 90/26

71 Applicant: **APPLIED BIOSYSTEMS, INC.**
850 Lincoln Centre Drive
Foster City California 94404(US)

72 Inventor: **Kronick, Mel N.**
1156 Forest Avenue
Palo Alto California 94301(US)
Inventor: **Keith, Douglas H.**
1145 Glencourt Drive
Oakland California 94611(US)
Inventor: **McBride, Lincoln J.**
311 Iris Street
Redwood City California 94062(US)
Inventor: **Whiteley, Norman M.**
151 Highland Avenue
San Carlos California 94070(US)
Inventor: **Hunkapiller, Michael W.**
1333 Pebble Drive
San Carlos California 94070(US)

74 Representative: **Ahner, Francis et al**
CABINET REGIMBEAU, 26, avenue Kléber
F-75116 Paris(FR)

54 **Method and kit for detecting a nucleic acid sequence.**

EP 0 322 311 A3
57 Nucleic acid sequences are detected by a multi-step process, involving labeling sample nucleic acid sequences, duplexing the labeled sample with a probe having a coupling element, immobilizing all of the duplexed probe and target sequence and unduplexed probe, separating specifically immobilized nucleic acid from free and non-specifically immobilized nucleic acid, releasing specifically immobilized nucleic acid, and detecting the presence of the sequence of interest by means of the label. The labeled sequence may be characterized by sizing, e.g. electrophoresis. The method provide for a sensitive and rapid means for accurate detection of sequence of interest in a wide variety of situations.



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 88 40 3266

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	WO-A-8 802 785 (BECKMAN INSTRUMENTS) * Claims 1-3,6-10,17,24,29,31-34,37-43,51,55,62 *	1,3,8,9 -12	C 12 Q 1/68 G 01 N 33/559 G 01 N 33/543// C 07 H 21/00 G 01 N 33/58
X	EP-A-0 164 876 (ALLIED CORP.) * Claims 1,5,6,7,11,12 *	1	
X	WO-A-8 607 387 (AMGEN) * Claims 1-17,20-31,34-38 *	1,3,8- 12	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			C 12 Q
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30-03-1990	Examiner DE ROECK R.G.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03.82 (P0401)

CGK00011078